

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2010 Levee Inspection Results

Reclamation District No. 0563 Tyler Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2010 Levee Inspection Results

Reclamation District No. 0563 Tyler Island

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough (Tyler Island)			Left	12.38
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/28/2010 - 4/28/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Steve Mello RD 563			

Check one:

- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to : DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
EMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	Photo
1	0.08	0.25	Earthen Levee	Encroachments	WS	C	Prunings			38.234585 °	38.232724 °	3
										-121.517980 °	-121.519984 °	
2	0.10	0.11	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.			38.234323 °	38.234216 °	1
										-121.518200 °	-121.518324 °	
3	0.17	0.17	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.			38.233602 °	38.233602 °	935
										-121.519024 °	-121.519024 °	
4	0.21	0.21	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.			38.233126 °	38.233126 °	2
										-121.519525 °	-121.519525 °	
5	0.66	0.67	Earthen Levee	Trim / Thin Trees	WS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.			38.228251 °	38.228139 °	936
										-121.524868 °	-121.525082 °	
6	0.68	0.71	Earthen Levee	Encroachments	LS	PO	Landscaping			38.228033 °	38.227777 °	50
										-121.525268 °	-121.525627 °	
7	0.88	0.88	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.			38.225591 °	38.225591 °	52
										-121.526451 °	-121.526451 °	
8	0.96	0.96	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: Pipe is not properly abandoned.			38.225655 °	38.225655 °	4
										-121.527901 °	-121.527901 °	Y
9	1.06	1.06	Earthen Levee	Encroachments	WS	M	Tree or limb			38.226465 °	38.226465 °	937
										-121.529400 °	-121.529400 °	
10	1.13	1.20	Earthen Levee	Encroachments	LS	PO	Landscaping			38.227150 °	38.227475 °	54
										-121.530412 °	-121.530117 °	
11	1.20	1.23	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.			38.226845 °	38.226605 °	56
										-121.531722 °	-121.532042 °	
12	1.21	1.21	Earthen Levee	Encroachments	WS	M	Tree or limb			38.226750 °	38.226750 °	938
										-121.531744 °	-121.531744 °	
13	1.25	1.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.			38.226326 °	38.226326 °	5
										-121.532298 °	-121.532298 °	
14	1.25	1.25	Earthen Levee	Encroachments	LS	PO	Buildings			38.226345 °	38.226345 °	57
										-121.532332 °	-121.532332 °	Y
15	1.38	1.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.			38.224793 °	38.224793 °	7
										-121.533599 °	-121.533599 °	
16	1.44	1.48	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove century plant from waterward shoulder.			38.224280 °	38.224000 °	6
										-121.534377 °	-121.535038 °	Y
17	1.46	1.46	Earthen Levee	Encroachments	WS	M	Tree or limb Inspector Comments: Tree limb down.			38.224092 °	38.224092 °	8
										-121.534717 °	-121.534717 °	Y

* Location
 LS : Land Side
 WS : Water Side
 CR : Crown

** Rating
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
EMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
18	1.86	1.86	Earthen Levee	Encroachments	LS PO	Stairways Inspector Comments: Retaining wall at landside toe of levee. New stairs and flower box on landside slope.	38.222702 ° -121.541678 °	38.222702 ° -121.541678 °	60 Y		
19	1.96	1.98	Earthen Levee	Encroachments	LS M	Equipment Inspector Comments: Material and equipment at landside toe.	38.222370 ° -121.543297 °	38.222101 ° -121.543409 °	10 Y		
20	1.97	1.97	Earthen Levee	Encroachments	WS PO	Buildings Inspector Comments: Landowner has built shed on waterside berm.	38.222238 ° -121.543362 °	38.222238 ° -121.543362 °	15 Y		
21	2.24	2.24	Earthen Levee	Animal Control	WS M	Exterminate rodents and backfill and compact or grout burrows.	38.218494 ° -121.542646 °	38.218494 ° -121.542646 °	14		
22	2.32	2.44	Earthen Levee	Encroachments	WS C	Prunings	38.217395 ° -121.542380 °	38.216242 ° -121.540835 °	9		
23	2.44	2.45	Earthen Levee	Vegetation	LS U	Elderberries are blocking visibility and flood fight capability.	38.216242 ° -121.540835 °	38.216147 ° -121.540612 °	11 Y		
24	2.46	2.46	Earthen Levee	Vegetation	WS M	Elderberries are blocking visibility and flood fight capability.	38.216122 ° -121.540555 °	38.216047 ° -121.540415 °	12		
25	2.50	2.52	Earthen Levee	Encroachments	WS C	Prunings	38.215892 ° -121.540102 °	38.215705 ° -121.539845 °	13		
26	2.59	2.59	Earthen Levee	Trim / Thin Trees	WS M	Trim trees to at least five feet above ground level.	38.215047 ° -121.538604 °	38.215047 ° -121.538604 °	20		
27	2.64	2.71	Earthen Levee	Trim / Thin Trees	WS M	Trim trees to at least five feet above ground level.	38.214567 ° -121.537945 °	38.213728 ° -121.537272 °	21		
28	2.68	2.87	Supplemental USACE Erosion Survey	WS M	Inspector Comments: 2009: 10 ft berm, 1:1 slope, no stability issues, clays and silts, 1.07 ft/s [2009 SiteID:GEO_9-3_L]			38.213939 ° -121.537694 °	38.211681 ° -121.535603 °	41 Y	
29	2.80	2.87	Earthen Levee	Trim / Thin Trees	LS M	Trim trees to at least five feet above ground level.	38.212680 ° -121.536350 °	38.211969 ° -121.535474 °	26		
30	2.86	2.86	Earthen Levee	Encroachments	WS C	Equipment	38.212180 ° -121.535803 °	38.212180 ° -121.535803 °	65		
31	2.94	2.95	Earthen Levee	Encroachments	LS M	Prunings	38.211282 ° -121.534810 °	38.211056 ° -121.534795 °	16 Y		
32	3.06	3.12	Earthen Levee	Vegetation	LS U	Remove the wild growth other than native grasses from the levee slopes.	38.210230 ° -121.536342 °	38.210251 ° -121.537290 °	17 Y		
33	3.21	3.32	Earthen Levee	Trim / Thin Trees	LS M	Trim trees to at least five feet above ground level.	38.209854 ° -121.538868 °	38.208758 ° -121.540236 °	28		

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
EMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
34	3.25	3.25	Earthen Levee	Encroachments	WS M		Tree or limb			38.209483 °	38.209483 ° 18
										-121.539568 °	-121.539568 °
35	3.25	3.74	Earthen Levee	Crown Surface / Depressions / Rutting	WS C		Add appropriate gravel or road base. Grade and compact.	38.209483 °	38.202950 °	,568.000000 °	939 -121.539726 °
36	3.28	3.34	Earthen Levee	Trim / Thin Trees	LS C		Trim trees to at least five feet above ground level.	38.209293 °	38.208515 °	-121.539787 °	19 -121.540412 °
37	3.63	3.65	Earthen Levee	Encroachments	LS PO		Buildings Inspector Comments: Landowner building house pad for new home 100'x 100'	38.204600 °	38.204300 °	-121.540232 °	940 -121.540133 ° Y
38	4.00	4.02	Supplemental USACE Erosion Survey	Erosion	WS M		Inspector Comments: 2009: 15 ft berm, 1.5:1 slope, no stability issues, clays and silts, 3.68 ft/s [2009 SiteID:GEO_8-3_L]	38.200769 °	38.200600 °	-121.542569 °	42 -121.542942 ° Y
39	5.12	5.16	Supplemental USACE Erosion Survey	Erosion	WS M		Inspector Comments: 2009: no berm, 2:1 slope, no stability issues, clays and silts, 3.71 ft/s [2009 SiteID:GEO_7-2_L]	38.189886 °	38.189522 °	-121.556686 °	43 -121.557228 ° Y
40	5.29	5.52	Supplemental USACE Erosion Survey	Erosion	WS M		Inspector Comments: 2009: 10 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 3.78 ft/s [2009 SiteID:GEO_6-8_L]	38.187975 °	38.186022 °	-121.558844 °	44 -121.561736 ° Y
41	5.66	5.66	Earthen Levee	Encroachments	WS M		Garbage	38.185048 °	38.185048 °	-121.564056 °	32 -121.564056 °
42	5.72	5.84	Earthen Levee	Vegetation	WS C		Remove the wild growth other than native grasses from the levee slopes.	38.184602 °	38.183667 °	-121.565112 °	941 -121.566794 °
43	5.99	5.99	Earthen Levee	Encroachments	LS M		Prunings	38.182431 °	38.182431 °	-121.568967 °	33 -121.568967 °
44	6.04	6.08	Earthen Levee	Vegetation	LS U		Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Large Cactus on landward slope.	38.181965 °	38.181763 °	-121.569913 °	22 -121.570447 ° Y
45	6.07	6.41	Supplemental USACE Erosion Survey	Erosion	WS M		Inspector Comments: 2009: 10 ft berm, 1.5:1 slope, tree hazards, clays and silts, 3.95 ft/s [2009 SiteID:GEO_6-1_L]	38.182086 °	38.181406 °	-121.570261 °	45 -121.576303 ° Y
46	6.09	6.09	Earthen Levee	Trim / Thin Trees	LS M		Trim trees to at least five feet above ground level.	38.181732 °	38.181732 °	-121.570524 °	35 -121.570524 °
47	6.11	6.38	Earthen Levee	Vegetation	WS C		Remove the wild growth other than native grasses from the levee slopes.	38.181579 °	38.181279 °	-121.571015 °	942 -121.575739 °

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End								Start	End	Photo
48	6.13	6.13	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.			38.181498 °	38.181498 °	69
										-121.571325 °	-121.571325 °	
49	6.38	6.39	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.			38.181273 °	38.181217 °	23
										-121.575873 °	-121.576070 °	
50	6.42	6.44	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.			38.181062 °	38.180977 °	24
										-121.576563 °	-121.576803 °	
51	6.54	6.54	Earthen Levee	Encroachments	WS	M	Abandoned vehicles			38.180020 °	38.180020 °	34
										-121.577897 °	-121.577897 °	
52	6.60	6.72	Earthen Levee	Encroachments	LS	CO	Landscaping			38.179250 °	38.177533 °	25
										-121.578347 °	-121.579087 °	
53	6.75	7.05	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.			38.177290 °	38.173080 °	73
										-121.579265 °	-121.579693 °	
54	6.83	7.44	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 3.95 ft/s [2009 SiteID:GEO_5-3_L]			38.176292 °	38.168006 °	46	
										-121.580106 °	-121.581717 °	Y
55	6.90	6.94	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level.			38.175190 °	38.174610 °	27
										-121.580035 °	-121.579948 °	Y
56	6.95	7.03	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.			38.174570 °	38.173432 °	943
										-121.579972 °	-121.579693 °	
57	7.70	7.92	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards, clays and silts, 3.94 ft/s [2009 SiteID:GEO_4-6_L]			38.164481 °	38.161561 °	48	
										-121.583214 °	-121.584631 °	Y
58	7.89	7.91	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.			38.161825 °	38.161633 °	29
										-121.584135 °	-121.584222 °	
59	7.91	7.95	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.			38.161633 °	38.161063 °	30
										-121.584222 °	-121.584477 °	
60	7.93	7.97	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards, clays and silts, 4.01 ft/s [2009 SiteID:GEO_4-5_L]			38.161456 °	38.160925 °	49	
										-121.584714 °	-121.584911 °	Y
61	8.04	8.23	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, no stability issues, clays and silts, 4.02 ft/s [2009 SiteID:GEO_4-3_L]			38.159994 °	38.157631 °	51	
										-121.585275 °	-121.586656 °	Y
62	8.29	8.39	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1:1 slope, no stability issues, clays and silts, 3.76 ft/s [2009 SiteID:GEO_4-0_L]			38.157111 °	38.157203 °	53	
										-121.587447 °	-121.589114 °	Y

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
EMR No	Levee Mile	Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start					Start	End	Photo		
63	8.40	8.48	Supplemental USACE Erosion Survey	WS M					38.157203 ° 38.157006 ° -121.589319 ° -121.590869 °	55 Y
						Inspector Comments: 2009: 5 ft berm, 2:1 slope, holes, sands and silts, 4.04 ft/s [2009 SiteID:GEO_3-71_L]				
64	8.50	8.53	Supplemental USACE Erosion Survey	WS M					38.156894 ° 38.156394 ° -121.591153 ° -121.591586 °	58 Y
						Inspector Comments: 2009: 5 ft berm, 2:1 slope, holes, sands and silts, 4.64 ft/s [2009 SiteID:GEO_3-7_L]				
65	8.55	8.75	Supplemental USACE Erosion Survey	WS M					38.156086 ° 38.152919 ° -121.591833 ° -121.591258 °	59 Y
						Inspector Comments: 2009: 5 ft berm, 2:1 slope, holes, clays and silts, 4.04 ft/s [2009 SiteID:GEO_3-6_L]				
66	8.56	8.62	Earthen Levee	Trim / Thin Trees	LS M	Trim trees to at least five feet above ground level.			38.155882 ° 38.155005 ° -121.591477 ° -121.591640 °	31
67	9.38	9.42	Earthen Levee	Trim / Thin Trees	LS M	Trim trees to at least five feet above ground level.			38.146164 ° 38.145913 ° -121.587538 ° -121.588193 °	37
68	9.49	9.49	Earthen Levee	Encroachments	LS C	Prunings			38.145952 ° 38.145952 ° -121.589525 ° -121.589525 °	75
69	9.52	9.74	Earthen Levee	Encroachments	LS C	Prunings			38.146132 ° 38.148897 ° -121.590010 ° -121.592150 °	944
70	9.81	9.81	Earthen Levee	Vegetation	LS M	Elderberries are blocking visibility and flood fight capability.			38.149790 ° 38.149790 ° -121.592788 ° -121.592788 °	36
71	9.85	9.98	Earthen Levee	Vegetation	LS C	Remove the wild growth other than native grasses from the levee slopes.			38.150202 ° 38.150973 ° -121.593243 ° -121.595236 °	945
72	9.86	9.86	Earthen Levee	Encroachments	LS C	Prunings			38.150253 ° 38.150253 ° -121.593300 ° -121.593300 °	946
73	9.90	9.96	Supplemental USACE Erosion Survey	WS M					38.150847 ° 38.151225 ° -121.593614 ° -121.594744 °	61 Y
						Inspector Comments: 2009: 5 ft berm, 2.5:1 slope, no stability issues, clays and silts, 3.99 ft/s [2009 SiteID:GEO_2-5_L]				
74	9.99	9.99	Earthen Levee	Encroachments	WS M	Prunings			38.150955 ° 38.150955 ° -121.595414 ° -121.595414 °	947
75	10.13	10.34	Earthen Levee	Encroachments	LS C	Prunings			38.149990 ° 38.147271 ° -121.597478 ° -121.599406 °	948
76	10.33	10.44	Supplemental USACE Erosion Survey	WS M					38.147536 ° 38.146114 ° -121.599397 ° -121.600419 °	62 Y
						Inspector Comments: 2009: no berm, 2:1 slope, no stability issues, clays and silts, 4.01 ft/s [2009 SiteID:GEO_2-0_L]				
77	10.44	10.44	Earthen Levee	Erosion / Bank Caving	WS U	Schedule repair of erosion site prior to the next inspection.			38.146102 ° 38.146102 ° -121.600342 ° -121.600342 °	949 Y
78	10.58	10.66	Earthen Levee	Encroachments	LS C	Prunings			38.144212 ° 38.143295 ° -121.599983 ° -121.599223 °	950

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
EMR No	Levee Mile	Category	Item	Location	Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start					Start	End	Photo		
79	10.63	10.89	Supplemental USACE Erosion Survey	WS M		Inspector Comments: 2009: 5 ft berm, 2:1 slope, holes, clays and silts, 4.05 ft/s [2009 SiteID:GEO_1-7_L]		38.143472 ° 38.140303 °	63	
								-121.599758 ° -121.597228 °	Y	
80	10.90	10.90	Earthen Levee	Slope Stability	WS M	Repair slope instability. Inspector Comments: Site is not completely repaired		38.140307 ° 38.140307 °	79	
								-121.596957 ° -121.596957 °	Y	
81	11.36	11.36	Earthen Levee	Encroachments	LS C	Prunings		38.134902 ° 38.134902 °	951	
								-121.592201 ° -121.592201 °		
82	11.49	11.59	Earthen Levee	Encroachments	WS M	Prunings		38.133556 ° 38.132462 °	952	
								-121.590641 ° -121.589452 °		
83	11.67	11.93	Earthen Levee	Vegetation	LS C	Remove the wild growth other than native grasses from the levee slopes.		38.131523 ° 38.130249 °	953	
								-121.588481 ° -121.584413 °		
84	11.69	12.04	Supplemental USACE Erosion Survey	WS U		Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards and slumping, clays and silts, 4.63 ft/s [2009 SiteID:GEO_0-3_L]		38.131103 ° 38.130297 °	64	
								-121.588397 ° -121.582278 °	Y	
85	12.15	12.16	Earthen Levee	Encroachments	WS M	Prunings		38.130766 ° 38.130776 °	954	
								-121.580528 ° -121.580276 °		
86	12.23	12.23	Earthen Levee	Trim / Thin Trees	LS M	Trim trees to at least five feet above ground level.		38.130758 ° 38.130758 °	47	
								-121.579027 ° -121.579027 °		
87	12.26	12.26	Earthen Levee	Encroachments	LS M	Garbage		38.130722 ° 38.130722 °	955	
								-121.578379 ° -121.578379 °	Y	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected W : Watch/Monitor
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking at pipe on landside slope.	
<i>richard_s_20100510_066.jpg</i>	



Levee Mile Report Line	8
Start Levee Mile	0.96
End Levee Mile	0.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking at pipe on waterside slope.	
<i>richard_s_20100510_067.jpg</i>	



Levee Mile Report Line	14
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking at shed at landside toe.	
<i>richard_s_20100505_045.jpg</i>	



Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.44
End Levee Mile	1.48
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Century plant on waterward shoulder at LM 1.42	
richard_s_20100505_038.jpg	



Levee Mile Report Line	16
Start Levee Mile	1.44
End Levee Mile	1.48
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking upstream at updated century plant on waterside shoulder slope.	
richard_s_20100510_069.jpg	



Levee Mile Report Line	17
Start Levee Mile	1.46
End Levee Mile	1.46
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking at tree limb on waterside slope.	
richard_s_20100510_068.jpg	



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CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Unauthorized retaining wall on landside toe.	
richard_s_20100505_046.jpg	



Levee Mile Report Line	18
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Flower box above retaining wall on landside slope	
richard_s_20100505_047.jpg	



Levee Mile Report Line	18
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at earthen pad on landside shoulder covering retaining wall and flower box.	
richard_s_20100510_070.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing N : Not Inspected	C : Corrected W : Watch/Monitor
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	19
Start Levee Mile	1.96
End Levee Mile	1.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at material and equipment on landside slope and toe.	
richard_s_20100510_072.jpg	



Levee Mile Report Line	20
Start Levee Mile	1.97
End Levee Mile	1.97
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking west at shed on waterside berm.	
richard_s_20100510_071.jpg	



Levee Mile Report Line	23
Start Levee Mile	2.44
End Levee Mile	2.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at elderberry on the landside slope and toe.	
richard_s_20100510_073.jpg	



Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	28
Start Levee Mile	2.68
End Levee Mile	2.87
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 10 ft berm, 1:1 slope, no stability issues, clays and silts, 1.07 ft/s [2009 SiteID:GEO_9-3_L]	
USACE2009_GEO_9-3_L_2009_09_18-D4P88_small.JPG	



Levee Mile Report Line	31
Start Levee Mile	2.94
End Levee Mile	2.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Prunings on landward shoulder from LM 2.93 to 2.95	
richard_s_20100505_039.jpg	



Levee Mile Report Line	31
Start Levee Mile	2.94
End Levee Mile	2.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View looking upstream at pruning pile.	
richard_s_20100505_040.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Bamboo at landward toe at LM 3.05	
richard_s_20100505_041.jpg	



Levee Mile Report Line	32
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at updated view of bamboo on landside slope and toe.	
richard_s_20100510_074.jpg	



Levee Mile Report Line	37
Start Levee Mile	3.63
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at building pad at landside slope. Pad is approx. 100' x 100'	
richard_s_20100505_050.jpg	



Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	3.63
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking upstream at house pad on landside slope.

richard_s_20100505_051.jpg



Levee Mile Report Line	37
Start Levee Mile	3.63
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at left corner of house pad.

richard_s_20100505_052.jpg



Levee Mile Report Line	37
Start Levee Mile	3.63
End Levee Mile	3.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking downstream at house pad with utility pole and drilling rig on the landside of levee.

richard_s_20100505_053.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	4.00
End Levee Mile	4.02
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 15 ft berm, 1.5:1 slope, no stability issues, clays and silts, 3.68 ft/s [2009 SiteID:GEO_8-3_L]	
USACE2009_GEO_8-3_L_2009_09_18-D4P87_small.JPG	



Levee Mile Report Line	39
Start Levee Mile	5.12
End Levee Mile	5.16
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 2:1 slope, no stability issues, clays and silts, 3.71 ft/s [2009 SiteID:GEO_7-2_L]	
USACE2009_GEO_7-2_L_2009_09_18-D4P86_small.JPG	



Levee Mile Report Line	40
Start Levee Mile	5.29
End Levee Mile	5.52
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 10 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 3.78 ft/s [2009 SiteID:GEO_6-8_L]	
USACE2009_GEO_6-8_L_2009_09_18-D4P83_small.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	44
Start Levee Mile	6.04
End Levee Mile	6.08
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Large Cactus plant on landward slope from LM 6.04 to 6.08	
richard_s_20100505_042.jpg	



Levee Mile Report Line	44
Start Levee Mile	6.04
End Levee Mile	6.08
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking at north end of catcus on the landside slope.	
richard_s_20100510_075.jpg	



Levee Mile Report Line	45
Start Levee Mile	6.07
End Levee Mile	6.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 10 ft berm, 1.5:1 slope, tree hazards, clays and silts, 3.95 ft/s [2009 SiteID:GEO_6-1_L]	
USACE2009_GEO_6-1_L_2009_09_18-D4P73_small.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	6.83
End Levee Mile	7.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 3.95 ft/s [2009 SiteID:GEO_5-3_L]	
USACE2009_GEO_5-3_L_2009_09_18-D4P69_small.JPG	



Levee Mile Report Line	55
Start Levee Mile	6.90
End Levee Mile	6.94
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Side view of dense trees along landside slope and shoulder.	
richard_s_20100505_043.jpg	



Levee Mile Report Line	55
Start Levee Mile	6.90
End Levee Mile	6.94
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Front view of dense trees along landside shoulder and slope.	
richard_s_20100505_044.jpg	



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N : Not Inspected	

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	57
Start Levee Mile	7.70
End Levee Mile	7.92
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards, clays and silts, 3.94 ft/s [2009 SiteID:GEO_4-6_L]	
USACE2009_GEO_4-6_L_2009_09_18-D4P63_small.JPG	



Levee Mile Report Line	60
Start Levee Mile	7.93
End Levee Mile	7.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards, clays and silts, 4.01 ft/s [2009 SiteID:GEO_4-5_L]	
USACE2009_GEO_4-5_L_2009_09_18-D4P61_small.JPG	



Levee Mile Report Line	61
Start Levee Mile	8.04
End Levee Mile	8.23
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, no stability issues, clays and silts, 4.02 ft/s [2009 SiteID:GEO_4-3_L]	
USACE2009_GEO_4-3_L_2009_09_18-D4P56_small.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	62
Start Levee Mile	8.29
End Levee Mile	8.39
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1:1 slope, no stability issues, clays and silts, 3.76 ft/s [2009 SiteID:GEO_4-0_L]	
USACE2009_GEO_4-0_L_2009_09_18-D4P53_small.JPG	



Levee Mile Report Line	63
Start Levee Mile	8.40
End Levee Mile	8.48
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2:1 slope, holes, sands and silts, 4.04 ft/s [2009 SiteID:GEO_3-71_L]	
USACE2009_GEO_3-71_L_2009_09_18-D4P51_small.JPG	



Levee Mile Report Line	64
Start Levee Mile	8.50
End Levee Mile	8.53
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2:1 slope, holes, sands and silts, 4.64 ft/s [2009 SiteID:GEO_3-7_L]	
USACE2009_GEO_3-7_L_2009_09_18-D4P50_small.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	65
Start Levee Mile	8.55
End Levee Mile	8.75
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2:1 slope, holes, clays and silts, 4.04 ft/s [2009 SiteID:GEO_3-6_L]	
USACE2009_GEO_3-6_L_2009_09_18-D4P47_small.JPG	



Levee Mile Report Line	73
Start Levee Mile	9.90
End Levee Mile	9.96
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2.5:1 slope, no stability issues, clays and silts, 3.99 ft/s [2009 SiteID:GEO_2-5_L]	
USACE2009_GEO_2-5_L_2009_09_18-D4P46_small.JPG	



Levee Mile Report Line	76
Start Levee Mile	10.33
End Levee Mile	10.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 2:1 slope, no stability issues, clays and silts, 4.01 ft/s [2009 SiteID:GEO_2-0_L]	
USACE2009_GEO_2-0_L_2009_09_18-D4P44_small.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	77
Start Levee Mile	10.44
End Levee Mile	10.44
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking downstream at erosion site on waterside slope and shoulder.	
richard_s_20100505_056.jpg	



Levee Mile Report Line	79
Start Levee Mile	10.63
End Levee Mile	10.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 2:1 slope, holes, clays and silts, 4.05 ft/s [2009 SiteID:GEO_1-7_L]	
USACE2009_GEO_1-7_L_2009_09_18-D4P42_small.JPG	



Levee Mile Report Line	80
Start Levee Mile	10.90
End Levee Mile	10.90
Location	Water Side
Category	Earthen Levee
Item	Slope Stability
Uncompleted slope stability repair on waterside slope.	
richard_s_20100505_049.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.38	04/28/2010 04/28/2010	Richard Willoughby

Levee Mile Report Line	84
Start Levee Mile	11.69
End Levee Mile	12.04
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards and slumping, clays and silts, 4.63 ft/s [2009 SiteID:GEO_0-3_L]	
USACE2009_GEO_0-3_L_2009_09_18-D4P39_small.JPG	



Levee Mile Report Line	87
Start Levee Mile	12.26
End Levee Mile	12.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Rubber tires on landside shoulder.	
richard_s_20100505_057.jpg	



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